

1. Find the quotient

$$\text{a) } \frac{5}{8} \div \left(\frac{-1}{5}\right) \quad \text{b) } \frac{-4}{7} \div \left(\frac{2}{-3}\right) \quad \text{c) } -6 \div \left(\frac{-17}{-12}\right) \quad \text{d) } \frac{-5}{-12} \div (-4) \quad \text{e) } -2\frac{1}{3} \div \left(\frac{-3}{5}\right)$$

$\frac{5}{8} \times \left(\frac{-5}{1}\right)$	$\frac{-4}{7} \times \left(\frac{-3}{2}\right) = \frac{12}{14}$	$\frac{-6}{1} \times \frac{12}{17}$	$\frac{5}{12} \times \frac{-1}{4}$	$\frac{-7}{3} \times \left(\frac{-5}{3}\right)$
$\frac{-25}{8} = -3\frac{1}{8}$	$\frac{6}{7}$	$\frac{-72}{17} = -4\frac{4}{17}$	$\frac{-5}{48}$	$\frac{35}{9} = 3\frac{8}{9}$

$$\text{f) } -4\frac{1}{2} \div \left(-1\frac{1}{7}\right)$$

$\frac{-9}{2} \times \left(\frac{-7}{8}\right)$
$\frac{63}{16} = 3\frac{15}{16}$

2. Find the result

$$\text{a) } \frac{7}{10} \times \left(\frac{-5}{6}\right) \times \left(\frac{-18}{-7}\right) \quad \text{b) } \frac{-4}{9} \times \left(\frac{-27}{-5}\right) \div \left(\frac{-8}{10}\right) \quad \text{c) } \frac{-16}{-9} \div \left(\frac{16}{-9}\right) \times \left(\frac{-9}{8}\right)$$

$\frac{630}{420} = \frac{63}{42} = \frac{9}{6} = 1\frac{1}{2}$	$\frac{108}{-45} \times \left(\frac{-10}{8}\right)$	$\frac{16}{9} \times \left(\frac{-9}{16}\right) \times \left(\frac{-9}{8}\right)$
	$\frac{1080}{360} = 3$	$\frac{1296}{1152} = \frac{9}{8} = 1\frac{1}{8}$

d) $\frac{3}{-5} \div \left(\frac{-12}{-7}\right) \div \left(\frac{-21}{10}\right)$ e) $\frac{2}{3} \times 1\frac{4}{7} \times \frac{3}{2}$ f) $2\frac{1}{2} \div 1\frac{2}{3} \div (-3\frac{1}{3})$

$\frac{-3}{5} \times \left(\frac{7}{12}\right) \times \left(\frac{-10}{21}\right)$ $\frac{210}{1260} = \frac{1}{6}$	$\frac{2}{3} \times \frac{11}{7} \times \frac{3}{2}$ $\frac{66}{42} = \frac{11}{7} = 1\frac{4}{7}$	$\frac{5}{2} \div \frac{5}{3} \div \left(\frac{-10}{3}\right)$ $\frac{5}{2} \times \frac{3}{5} \times \left(\frac{-3}{10}\right)$ $\frac{-45}{100} = \frac{-9}{20}$
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g) $\frac{5}{8} \times \left(\frac{-1}{4}\right) \div \left(\frac{-4}{8}\right)$ h) $-\frac{4}{3} \times \left(\frac{1}{-3}\right) \div \left(\frac{-8}{9}\right)$ i) $\frac{-10}{-9} \div \frac{6}{5} \times \left(\frac{-7}{3}\right)$

$\frac{-5}{32} \times \left(\frac{-8}{4}\right)$ $\frac{40}{128} = \frac{10}{32} = \frac{5}{16}$	$\frac{4}{9} \times \left(\frac{-9}{8}\right)$ $\frac{-36}{72} = \frac{-4}{8} = \frac{-1}{2}$	$\frac{10}{9} \times \frac{5}{6} \times \left(\frac{-7}{3}\right)$ $\frac{-350}{162} = \frac{-175}{81} = -2\frac{13}{81}$
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j) $2\frac{1}{2} \div \left(-3\frac{1}{3}\right) \times 2\frac{2}{3}$ k) $-3\frac{1}{4} \times 1\frac{3}{5} \div \left(-1\frac{1}{5}\right)$ l) $-5\frac{1}{3} \div \frac{8}{3} \div \left(-4\frac{1}{2}\right)$

$\frac{5}{2} \div \left(\frac{-10}{3}\right) \times \frac{8}{3}$ $\frac{5}{2} \times \left(\frac{-3}{10}\right) \times \frac{8}{3}$ $\frac{-120}{60} = -2$	$\frac{-13}{4} \times \frac{8}{5} \div \left(\frac{-6}{5}\right)$ $\frac{-104}{20} \times \left(\frac{-5}{6}\right)$ $\frac{520}{120} = \frac{52}{12} = \frac{26}{6} = 4\frac{1}{3}$	$\frac{-16}{3} \times \frac{3}{8} \div \left(\frac{-9}{2}\right)$ $\frac{-48}{24} \times \left(\frac{-2}{9}\right)$ $\frac{96}{216} = \frac{16}{36} = \frac{4}{9}$
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3. The value of a stock changed by $\$-\frac{3}{8}$ each day until the total change was $\$-4\frac{1}{2}$. During how many days did the stock drop at the rate of $\$-\frac{3}{8}$ per day?

$$-4\frac{1}{2} \div \left(-\frac{3}{8}\right)$$

$$\frac{-9}{2} \times \left(-\frac{8}{3}\right)$$

$$\frac{72}{6} = 12$$

The stock had dropped for 12 days.

4. Evaluate $\frac{a}{bc}$ for these values of a, b , and c.

a) $a = \frac{6}{5}, b = \frac{-2}{-9}, c = \frac{27}{-5}$

$$\frac{6}{5} \div \left[\left(\frac{-2}{-9} \right) \left(\frac{27}{-5} \right) \right]$$

$$\frac{6}{5} \div \left(\frac{-54}{45} \right)$$

$$\frac{6}{5} \times \left(\frac{-45}{54} \right)$$

$$\frac{-270}{270} = -1$$